U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH
CHENANGO COUNTY, NEW YORK

Continued on Plate 3B

WATER-RESOURCES INVESTIGATIONS REPORT 91-4138
PLATE 3A-POTENTIAL WELL YIELDS-SOUTH

POTENTIAL WELL YIELDS FROM VALLEY-FILL AQUIFERS IN THE SOUTHERN PART OF CHENANGO COUNTY, NEW YORK

By
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1993

Base From New York State Department of Transportation, 1:24,000 Series

EXPLANATION

ZONE	POTENTIAL WELL YIELD FOR WELLS COMPLETED IN VALLEY-FILL AQUIFERS, IN GALLONS PER MINUTE.
1	LESS THAN 100--Areas where saturated thickness is less than 10 feet. Applies to well diameters of 6 to 8 inches.
2	100 TO LESS THAN 1,500--Areas where saturated thickness is 10 to 40 feet. Applies to well diameters of 8 to 14 inches.
3	1,500 TO LESS THAN 3,500--Areas where saturated thickness is greater than 40 feet. Applies to well diameters of 14 to 20 inches.
4	GREATER THAN OR EQUAL TO 3,500--Areas where saturated thickness is greater than 40 feet, the aquifer is assumed to be hydraulically connected to major streams, and the drainage area is greater than 200 square miles. Applies to well diameters greater than 20 inches.
5	INSUFFICIENT DATA--Areas where well data is insufficient to estimate potential well yield.
M	MORAINE--Mostly till and lacustrine deposits (fine sand, silt, and clay), overlain in some places with unsaturated sand and gravel. Thin, scattered confined sand and gravel aquifers may be present.
	CONFINED AQUIFER--Stippled overprint shows areas where confined sand and gravel aquifers are likely to occur. Well data is insufficient to estimate yield.

AQUIFER BOUNDARY--Inferred from topographic and geologic data. Dashed where approximate.

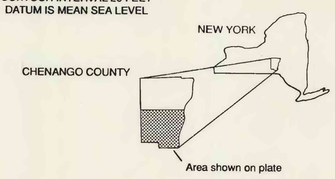
ARBITRARY BOUNDARY--Aquifer may extend beyond that shown, but saturated thickness is probably less than 10 feet.

BOUNDARY BETWEEN WELL YIELD ZONES--Inferred from geologic data.

The potential well yield and aquifer boundaries are inferred and therefore are not intended for use in site specific studies.

0 1 2 3 MILES
0 1 2 3 4 KILOMETERS

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL



Hydrogeology modified from R.D. MacNish and A.D. Randall (1982); T.S. Miller (1987); and E.F. Bugliosi and others (1988).

Mc Pherson, W.S., 1993, Hydrogeology of unconsolidated deposits in Chenango County, New York: U.S. Geological Survey Water-Resources Investigations Report 91-4138.